

INTERNATIONAL SEARCH REPORT

Internal Application No

PCT/GB 02/05293

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H01P1/211 H01P11/00

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H01P H01Q

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the International search (name of data base and, where practical, search terms used)

PAJ, INSPEC, EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	PATENT ABSTRACTS OF JAPAN & JP 55 117301 A (TOSHIBA CORP.), 9 September 1980 (1980-09-09) abstract	1,2
Y	-----	3-19
Y	US 3 046 503 A (COHN SEYMOUR B) 24 July 1962 (1962-07-24) column 2, line 6-18 column 3, line 61-68; figure 1.	3-5,8
Y	US 3 271 706 A (ROONEY JOHN P) 6 September 1966 (1966-09-06) figures 2,3	6,12,13, 19
Y	US 4 034 319 A (OLSSON DAVID L) 5 July 1977 (1977-07-05) figure 1	7,11,18
	----- -/-	



Further documents are listed in the continuation of box C.



Patent family members are listed in annex.

* Special categories of cited documents:

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O document referring to an oral disclosure, use, exhibition or other means

P document published prior to the International filing date but later than the priority date claimed

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X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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Date of the actual completion of the international search

17 February 2003

Date of mailing of the international search report

24/02/2003

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	EP 1 049 192 A (HITACHI LTD) 2 November 2000 (2000-11-02) page 4, line 15-44 page 5, line 34-43; figure 1 ----	9,10, 14-17
X	FR 2 602 114 A (ESSWEIN SA) 29 January 1988 (1988-01-29) page 4, line 10-15; figures 1,2 -----	1,14

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 Interna Application No
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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
JP 55117301	A	09-09-1980	NONE	
US 3046503	A	24-07-1962	NONE	
US 3271706	A	06-09-1966	NONE	
US 4034319	A	05-07-1977	NONE	
EP 1049192	A	02-11-2000	JP 2000307305 A EP 1049192 A2 US 2002067313 A1 US 6337661 B1	02-11-2000 02-11-2000 06-06-2002 08-01-2002
FR 2602114	A	29-01-1988	FR 2602114 A1	29-01-1988